

DEPARTMENT OF HEALTH SERVICES

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BERKELEY, CA 94704-1011

N00217.003118
HUNTERS POINT
SSIC NO. 5090.3



(510) 540-3657

August 16, 1995

Mr. David Song
Department of the Navy
Engineering Field Activity, West
Naval Facilities Engineering Command
900 Commodore Drive
San Bruno, CA 94066-5006

Dear Dave:

Attached is our one page description of a plan for sampling fish from areas near the Hunters Point Annex (HPA) site. Thank you for considering the addition of this plan to the Phase 1B work plan.

We recommend that at least two areas, one directly adjacent to HPA and one further away, be sampled so that the influence of the site on contaminant levels may be observed. In addition, if possible, we recommend that sample type and species be similar to those used in the Regional Water Quality Control Board's study so that results can be compared with other areas in the San Francisco Bay. These steps will help us to determine if the HPA site is the source of contaminants.

My agency may be able to offer to assist you in the collection of fish samples. As I mentioned, we have requested resources from the Agency for Toxic Substances and Disease Registry to conduct a detailed survey of persons fishing in areas near HPA. If funding is approved, we may be able to collect fish samples from fishers while we are conducting these interviews. Although we prefer that samples be collected directly from fishers, an alternative method would be to collect fish samples by using trawls. We have had some discussion with California Department of Fish and Game staff who conducts fish population studies near HPA. They have offered to use their boat and trawls to assist us in collecting fish samples for this study.

Prior to conducting the detailed survey of the fishing population, CDHS will conduct a brief "scoping" survey. The purpose of the scoping survey is to gather enough information about the fishing population to help us plan the detailed survey. CDHS will conduct the scoping survey regardless of whether we receive additional funds for the detailed survey. During the scoping survey we will also gather information about the species of fish caught and areas where people fish near HPA. We will be able to provide this information to you to further refine the fish sampling plan.

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We have recommended that fish samples be analyzed for 6 chemicals or chemical groups that are listed in order of priority. If the inclusion of these chemicals makes the cost of this study prohibitively high, we recommend restricting analyses to fewer chemicals. Because sample material can be stored, further analyses can be made at a later date if new data strengthens the need for such analyses.

Thank you again for considering this fish sampling plan. I look forward to discussing this proposal with you.

Sincerely,

A handwritten signature in cursive script, appearing to read "Partha Harnly for".

Alyce Ujihara, M.S.
Research Scientist

Attachment

cc: see next page.

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cc: Marilyn C. Underwood, PH.D.
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8/16/95

Proposed Fish and Shellfish Sampling Plan
Treasure Island Naval Station Hunters Point Annex

Objective: To estimate mean concentrations of chemicals associated with the Hunters Point Annex (HPA) site in fish commonly consumed in areas near the site.

A. General procedures

The California Department of Health Services (CDHS) recommends following the field and laboratory procedures outlined in U.S. EPA's Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories, Volume 1, Fish Sampling and Analysis (August 1993).

B. Sampling locations

See attached map. Samples should be collected at a minimum of two locations. Recommended sampling areas are: (1) the northeast shoreline areas of Candlestick Point State Recreation Area and (2) the fishing pier on the east side of the Recreation Area.

C. Target species

Although the actual species of fish collected will be based on availability during sampling, recommended target species are (1) white croaker (*Genyonemus lineatus*) and (2) surfperch (various species).

D. Sample type

A minimum of 3 composite samples for each species, and at least two species at each sampling location. At least one species should be collected at all sampling locations. Ideally, composites should contain 5 individual fish samples. The parts of the fish analyzed should be those most commonly eaten by fishers. In most cases, fish fillet (muscle) samples with scales removed and skin on should be analyzed. Composite sample homogenates and fish carcasses should be frozen and stored for future analyses.

E. Collection procedures

CDHS recommends collecting fish samples directly from recreational fishers by offering to pay them for their fish.

F. Target Analytes

Samples should be analyzed for the following chemical:

- (1) polychlorinated biphenyls (Aroclors)
- (2) dieldrin
- (3) arsenic (speciate inorganic fraction)
- (4) mercury
- (5) PAHs (should include: benzo[a]pyrene, benzo[a]anthracene, benzo[b]fluoranthene, benzo[k]fluoranthene, dibenzo(a,h)anthracene, indeno[1,2,3-c,d]pyrene, chrysene, acenaphthene, anthracene, fluoranthene, fluorene, pyrene)
- (6) dioxin

